THE BRITISH NEREIDES.

[Continued from vol. iii. p. 295.]

2. PHYLLODOCE*, Savigny.

CHAR. Body linear-elongate, with numerous segments: head distinct: proboscis thick, clavate, the orifice encircled with papillary tentacula: no jaws: antennæ frontal, small, four or rarely five: eyes two: tentacular cirri four on each side, unequal, setaceous: feet uniramous, overlapped with a leaflike veined cirrus: bristles setaceous, slender, jointed: no branchiæ: posterior extremity terminated with a pair of short fleshy styles.

Observations. The Phyllodoces are the most beautiful worms† among the Nereides, and are readily distinguished by the series of compressed foliaceous lamellæ, originating immediately above the insertions of the feet, which garnish the sides of the body. The peculiar office of these organs is conjectured to be respiratory I, but they also aid the animal in its progress through the water, for, following the motions of the feet and capable of being partially altered from a horizontal to a perpendicular position, they act as a bank of oars, and must be especially useful when the worm glides from a solid surface, and finds itself unsupported in the water. Hence the species are quick and lively, and swim with considerable ease §. We have found them buried occasionally in light sand between tide marks; but they principally reside in deeper

^{*} The name of a sea-nymph, of the train of Cyrene.—Virg. Georg. iv. 336. It is synonymous with the Nereiphylle of Blainville, but not with the Phyllodoce of Ranzani. A genus of plants has been named Philodice, and to those who think it against the canon to give the same name to any subjects of Fauna and Flora, this might be a reason to prefer the nomenclature of Blainville.

^{† &}quot;Virgines pulcherrimæ inter Nereides."—Otho Fabricius. ‡ Cuv. Reg. Anim. iii. p. 202. It would be wrong to overlook their resemblance to the branchiæ in the larvæ of the Ephemerides: see Reaumur, Hist. des Insect. vi. p. 468, pl. 45, fig. 2. § "Currit egregie; natare etiam valet lamellis suis retroversis oblique

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THE BRITISH NEREIDES.

[Continued from vol. iii. p. 295.]

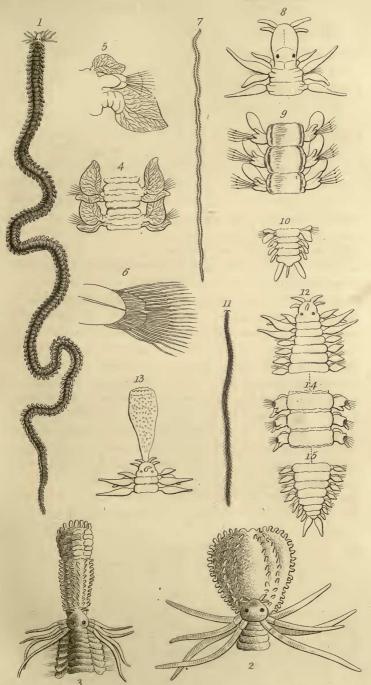
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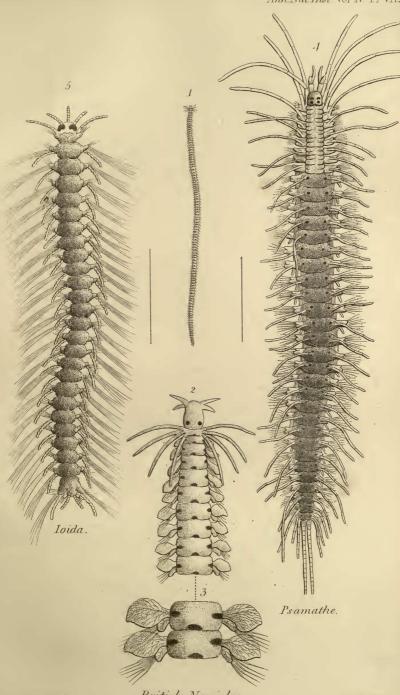
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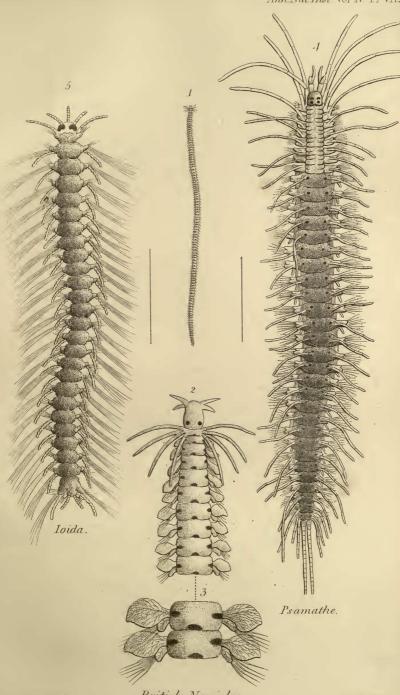




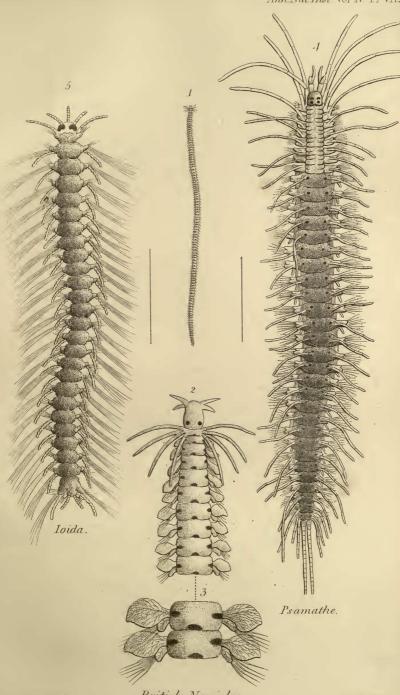




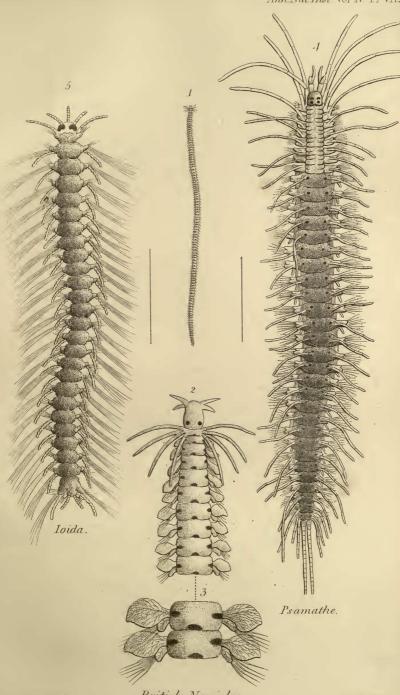
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1. Ph. lamelligera, of a dusky-olive or sometimes oil-green; the colour often confined to the margins of the segments. (Plate VI. fig. 1-6.)

Nereis lamelligera, Turt. Gmel. iv. p. 90. Turt. Brit. Faun. p. 135. Penn. Brit. Zool. iv. p. 96. Bosc, Vers, i. p. 173. Jameson in Wern: Mem. i. p. 557.—Phyllodoce gigantea, Johnston in Zool. Journ. iv. p.

Hab. Sometimes found at low-water mark, but more common among the refuse brought up on the lines of the fishermen. Deep water in the Frith of Forth, brought up by the oyster-dredges, Dr. Neill. Common in Berwick Bay.

DESC. Body 14 inches long, linear-elongate, somewhat compressed, tapered at the tail, smooth, dusky with blueish and greenish shades reflecting a metallic lustre, the branchial leaf-

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This species is said to attain sometimes a size considerably greater than that of the specimen just described, but on this part of the coast one of 14 inches length is rare, while examples varying from 4 to 8 inches are not uncommon. It is liable to much difference in the tints of its colour, and the green often predominates, while in young individuals the colour is not diffused over the segments, but confined to their margins, which are dusky, while the centre may be a pale yellow. In these also the spots in the centre of the branchial leaflets are usually well-marked. These are liable to be slightly affected in their form by the motion and contractions of the worm; and near the tail they always incline more to the oval than the heart-shape. The proboscis is either clavate or cylindrical, according to its degree of protrusion. The worm tints the spirits in which it is preserved with a greenish colour: the body becomes blueish- or greenish-grey, and the lamellæ a uniform olive.

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Nereis maculata, Linn. Syst. 1086. Mull. Zool. Dan. prod. p. 217. Bosc, Vers, i. p. 171.—Phyllodoce pulchra, Johnston in Zool. Journ. iv. p. 54.

—The figure of Baster (Opusc. Subs. i. p. 14. tab. iv. fig. 1.) may possibly be intended for a representation of this species.

Hab. The shore at and within tide marks. Frequent on the coast of Berwickshire.

DESC. Worm sometimes 4 inches long, slender, depressed, tapered a little towards each extremity, yellowish, with a row of dark-brown spots along the back, and the sides spotted with the same colour; ventral surface paler, with a median row of small rather distant spots, and a series of larger ones on each side at the base of the feet. Head bluntly pointed, armed in front with four white conical antennæ; eyes black. Post-occipital segment with four pairs of setaceous tentacular cirri, of which the two anterior are the shortest: on each side of the other segments there is an oval or somewhat heartshaped branchial lamella, with a brown spot in its centre, and supported on a very short spotted stalk: beneath them are the feet, each foot consisting of two papillary processes, the superior furnished with a brush of retractile bristles of the usual character. Anal segment terminated with two short conical styles.

3. Ph. bilineata, slender, pale greenish-yellow, with a continuous dark line drawn down each side at the insertions of the feet. Plate VI. fig. 7—10.

Nereis maculata? Fabr. Faun. Grænl. p. 298. Turt. Gmel. iv. p. 88. Hab. On oysters from Preston-pans in the Firth of Forth. Berwick Bay, rare.

[.] Pl. VII. will be given in the Supplement to the present volume.

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PLATE VI. fig. 7. Ph. bilineata, natural size. Fig. 8. The head. Fig. 9. The middle segments; and Fig. 10. The caudal extremity:—magnified.

4. Ph. viridis, body roundish, of a uniform grass-green colour; branchial leaflets lanceolate; antennæ five. Plate VI. fig. 11—15.

Nereis viridis, Linn. Syst. 1086. Mull. Zool. Dan. prod. 217, no. 2636. Fabric. Faun. Grænl. 297. Turt. Gmel. iv. 88. Turt. Brit. Faun. 135. Adams in Linn. Trans. v. 8. Bosc, Vers, i. 171. Pen. Brit. Zool. edit. 1812, iv. 94.—Phyllodoce clavigera, Aud. et Edw. Hist. Nat. du Litt. de la France, ii. 226. pl. 5 a. fig. 9—13.

Hab. Found on Fucus pinnatifidus, near Tenby (Pembrokeshire), Adams. Berwick Bay abundantly, and I believe it to be common on most parts of the British coast.

DESC. Worm from 2 to 3 inches long, elongate and narrow, slightly tapered towards the head, more so at the tail, of a uniform duck-green colour, paler on the ventral aspect. Head small, narrowest in front, but not pointed, the apex armed with four short conical antennæ, and a smaller antenna is less perceptible on the vertex: eyes two*, occipital, dark brown: mouth with a large clavate proboscis, greenish, rough under the magnifier, with minute papillæ, edentulous: post-occipital segment with four tentacular cirri on each side, twice the length of the branchiæ, the anterior pair one half shorter than the others, conical, simple: segments very numerous, often defined by a line of deeper green, shorter than their breadth, smooth, convex dorsally: branchial leaflets (or superior cirri) lanceolate, slightly compressed, retroflexed, longer than the foot, which is furnished with a bundle of very slender retractile acicular bristles and with a single spine: tail terminated with two fleshy styles, similar to the leaflets, but rather larger.

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Nereis viridis, Linn. Syst. 1086. Mull. Zool. Dan. prod. 217, no. 2636. Fabric. Faun. Grænl. 297. Turt. Gmel. iv. 88. Turt. Brit. Faun. 135. Adams in Linn. Trans. v. 8. Bosc, Vers, i. 171. Pen. Brit. Zool. edit. 1812, iv. 94.—Phyllodoce clavigera, Aud. et Edw. Hist. Nat. du Litt. de la France, ii. 226. pl. 5 a. fig. 9—13.

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DESC. Worm from 2 to 3 inches long, elongate and narrow, slightly tapered towards the head, more so at the tail, of a uniform duck-green colour, paler on the ventral aspect. Head small, narrowest in front, but not pointed, the apex armed with four short conical antennæ, and a smaller antenna is less perceptible on the vertex: eyes two*, occipital, dark brown: mouth with a large clavate proboscis, greenish, rough under the magnifier, with minute papillæ, edentulous: post-occipital segment with four tentacular cirri on each side, twice the length of the branchiæ, the anterior pair one half shorter than the others, conical, simple: segments very numerous, often defined by a line of deeper green, shorter than their breadth, smooth, convex dorsally: branchial leaflets (or superior cirri) lanceolate, slightly compressed, retroflexed, longer than the foot, which is furnished with a bundle of very slender retractile acicular bristles and with a single spine: tail terminated with two fleshy styles, similar to the leaflets, but rather larger.

^{*} Audouin and Edwards say four, disposed in a transverse line, and very small, but their figure shows two only.

PLATE VI. fig. 7. Ph. bilineata, natural size. Fig. 8. The head. Fig. 9. The middle segments; and Fig. 10. The caudal extremity:—magnified.

4. Ph. viridis, body roundish, of a uniform grass-green colour; branchial leaflets lanceolate; antennæ five. Plate VI. fig. 11—15.

Nereis viridis, Linn. Syst. 1086. Mull. Zool. Dan. prod. 217, no. 2636. Fabric. Faun. Grænl. 297. Turt. Gmel. iv. 88. Turt. Brit. Faun. 135. Adams in Linn. Trans. v. 8. Bosc, Vers, i. 171. Pen. Brit. Zool. edit. 1812, iv. 94.—Phyllodoce clavigera, Aud. et Edw. Hist. Nat. du Litt. de la France, ii. 226. pl. 5 a. fig. 9—13.

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